











CEMSIS Submission

Data generated PRIOR to January 1, 2017 in NEMSIS 2.2 will be accepted.

However, data generated ON or AFTER January 1, 2017 in NEMSIS 2.2 will not be accepted.

CEMSIS data using NEMSIS 3.4 will be the accepted standard beginning January 1, 2017.



CEMSIS Submission

- Timeliness impacts data for use in EMSA reporting
- Optimal submission is at least monthly
- Files with more than 1 record in them will be rejected
- Data must pass Validation Tool for CEMSIS submission



Compliance Vs. Compatibility:

Compatible Software is **NOT** Compliant

- Compliance is determined by NEMSIS
- > No software will be deemed compatible
- > Data using not compliant software cannot be submitted.



Compliant Software:

- Ensures Standardization
- Increases Data Quality
- Defined by NEMSIS
- Compliance with CEMSIS



NEMSIS Compliant EMS ePCR / Data Systems The following have software deemed compliant for version 3.4

AngelTrack LLC American Ambulance American Medical Response Beyond Lucid Technologies, Inc. Emergidata
EMS Consultants Ltd. EMS Data Systems

Forte Holdings Inc Golden Hour Data Systems MedaPoint, Inc. Physio-Control Prestige RAM Software Systems Inc Starwest Tech World Advancement of Technology for EMS and Rescue

FIREHOUSE Software, A Xerox Solution

For a complete list of NEMSIS 3.4 compliant vendors, go to: http://www.nemsis.org/v3/compliantSoftware.html

NEMSIS 3: Compliance Process

NEMSIS version 3 Compliance Process requires that a data system be able to collect, receive, and process data. The documents below are available to assist in your The documents below are available to documents below are available to documents below are available to documents below are available compliant of the compliant

Compliance Process & Check List

NEMSIS V3 Compliance Application Form

Pre-Testing Package v3.4.0

NEMSIS v3 Compliance Document NEMSIS v3.4.0 Pre-Testing Package





Compliance Testing Schedule

There is no official schedule for compliance testing of EMS software products.

NEMSIS provides free compliance testing. Contact Jorge Rojas at 801.213.3822 or Jorge.Rojas@hsc.utah.edu

More information on NEMSIS compliance is available at: http://nemsis.org/v3/becomingCompliant/complianceTestingSchedule.html



Considerations

Potential Issues

- Capability of provider software to collect 3.4 data
- Successful data transfer: Provider to LEMSA
- Successful data transfer: LEMSA to CEMSIS.

Additional Funding

EMSA expects to provide local assistance funds to help LEMSAs support providers who have the greatest need



Data Challenges

- Input: Null Values
- Mapping impacts degradation of data
- Destination/Facilities list: uniformity and maintenance

CEMSIS Data Entry

- > Input: Null Values
- > Mapping impacts degradation of data
- Destination/Facilities list: uniformity and maintenance



Usage Value Descriptions

- Mandatory: These elements are always required and must be filled out in every record and "Not Values" are not allowed
- Required: These elements are always required and they do allow "Not Values" to be used
- Recommended: These elements are state elements and allow the use of "Not Values"
- Optional: These elements are optional and do not address "Not Values"



Negative or Null Values

Use of Null and Negative Values reduces the data quality and should be used accordingly

More information on NEMSIS 3 "NOT" Values can be found:

http://nemsis.org/media/nemsis v3/master/UsageGuide s/NEMSIS v3 NOT Values Use Guidance.pdf



Data Dictionary 3.4

- All Data Elements that have a Usage Definition of National Mandatory or Required are included
- Data Elements with Version 3.4 Usage of Optional are not included but may be utilized for local purposes. This includes elements that are State Recommended but have a Version 3.4 Usage Definition of Optional
- Data Elements with a Usage Definition of Optional are not included but may be utilized by the LEMSAs and providers for local purposes
- Modified Pick Lists make field staff data entry easier





Primary Impression List

The Primary Impression should be the most significant condition which led to the management of the patient (treatments, medications, procedures)

Is not necessarily be related to the first complaint of the patient if a more significant condition is encountered



Primary and Secondary Pick Lists

The pick lists are designed to allow field personnel to allow documentation of many key impressions that have discrete treatments or presentations



Importance of Primary Impression

- Crucial in Quality Improvement efforts It gives the best idea of what the field personnel were thinking when they delivered treatments to patients
- > Feedback to crews to improve future care Intent is to link to hospital diagnosis data



Uniformity for Primary Impressions

Improve Data Quality

Promotes a common data understanding As of 2017, a uniform set of values to be used across the state



Secondary Impression

More than one Secondary Impression may be chosen

- > Represent a second condition for treatment
- May add further definition to Primary **Impression**



What is Missing for Primary and Secondary

The listed impressions should suffice for most conditions encountered by 9-1-1 responders.

"Other" can be chosen as a secondary impression. Use of this needs to be sparing and the details should always be documented in the narrative







Other Pick Lists

Other Pick Lists that are have been modified include:

Location

Cause or Injury Symptoms

AS other pick lists are modified, they will be made available to LEMSAs and providers



Downloadable Resources (1 of 2)

The following tools, XSDs, dataset dictionaries, and other helpful resources to help you when developing NEMSIS compliant software:

Dataset Dictionaries

http://nemsis.org/v3/downloads/datasetDictionaries.html

Demographic (Agency) Dataset Schema

http://nemsis.org/v3/downloads/demographicDataset.html

EMS (PCR/Event) Dataset Schema

http://nemsis.org/v3/downloads/emsDataset.html

Medical Device Dataset Schema

http://nemsis.org/v3/downloads/medicalDevice.html



Downloadable Resources (2 of 2)

CAD Dataset Schema

http://nemsis.org/v3/downloads/CAD.html

Schematron

http://nemsis.org/v3/downloads/schematron.html

HL7 Products

http://nemsis.org/v3/downloads/hl7Products.html

Web Services

http://nemsis.org/v3/downloads/webServices.html

XML File Samples

http://nemsis.org/v3/downloads/testCasesXMLSamples.htm

NEMSIS Archive

http://nemsis.org/v3/downloads/v3Archive.htm



Additional Documents and Support

Data Memo

http://www.emsa.ca.gov/CEMSIS#documents

Data Strategy Memo

http://www.emsa.ca.gov/CEMSIS#documents

Direct CEMSIS Support

SysDivData@emsa.ca.gov or EMSData@emsa.ca.gov

Pick Lists

http://www.emsa.ca.gov/CEMSIS#documents

Phone Numbers:

Kathleen Bissell – 916-431-3687 EMSA Data Unit – 916-322-4336 ext. 742

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Upcoming Data Workshops

- Two in-person, all-day meetings
- September 2016
- One Northern CA, one Southern CA
- Invitees: LEMSA's, EMS Provider Agencies and Vendors





